

IN THE CLAIMS:

Please amend the claims as indicated below.

- 5 1. (Currently Amended) A first wireless communication device, comprising:
a controller capable of receiving an acknowledgement (ACK) message
transmitted by a second wireless communication device in response to a message transmitted by
said first wireless communication device, and
a collision detector that monitors a wireless medium for collisions of said
10 acknowledgement message if a measured energy level exceeds a predefined threshold.
2. (Original) The first wireless communication device of claim 1, wherein said
collision detector evaluates an energy level and detects a collision based on said energy level.
- 15 3. (Original) The first wireless communication device of claim 2, wherein said
collision detector includes a payload detector and detects a collision based on a detected payload.
4. (Original) The first wireless communication device of claim 3, wherein said
collision detector includes a preamble detector and detects a collision based on a detected
20 preamble.
5. (Previously Presented) The first wireless communication device of claim 1,
wherein said collision detector is activated after said first wireless communication device
transmits data.
- 25 6. (Original) The first wireless communication device of claim 1, wherein said
collision detector does not detect a collision if an ACK message or data header is received.

7. (Original) The first wireless communication device of claim 1, wherein said device is implemented in accordance with the IEEE 802.11 Standard.

5 8. (Previously Presented) The first wireless communication device of claim 1, wherein said controller determines if said second wireless communication device correctly received said transmitted message by monitoring said wireless medium.

10 9 (Original) The first wireless communication device of claim 1, wherein said controller determines that said second wireless communication device did not likely receive said message if a collision is detected.

15 10. (Original) The first wireless communication device of claim 1, wherein said controller determines that said collision was a cause of not receiving said ACK message

11-17 (Cancelled).

20 18. (Previously Presented) A method for detecting a collision in a wireless communication network, said method comprising the steps of:

determining if an acknowledgement message is received in response to transmitted data; and

monitoring said wireless communication network to detect a collision of said acknowledgement message if a measured energy level exceeds a predefined threshold.

25 19. (Previously Presented) The method of claim 18, wherein said monitoring step further comprises the step of detecting a payload and said collision detection is further based on said detected payload.

20. (Previously Presented) The method of claim 18, wherein said monitoring step further comprises the step of detecting a preamble and said collision detection is further based on said detected preamble.

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21. (Original) The method of claim 18, wherein said monitoring step is performed after said data is transmitted.

22. (Original) The method of claim 18, wherein said monitoring step does not
10 detect a collision if an ACK message or data header is received.

23. (Original) The method of claim 18, wherein said method is implemented in accordance with the IEEE 802.11 Standard.